٠.)	CLASSIFIED MESSAGE	R	ROUTING R	
DATE	2132Z 29 J	un 62	SECRET	1 2 3	5 C/DD 6	
TO	DIRECTOR		EO 12958 3.3(b)(1)>2 (N)	ÖPERATIONAL	IMMEDIATE	
ACTION: OSA (1-2-3-4-5-6-7-8-9-10) INFO : S/C (11) OPERATIONAL IMME					NAL IMMEDIATE	
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EYES ONLY MR CUNNINGHAM, MR PARANGOSKI FROM COL NELSON

FLIGHTS NUMBERS 17 AND 18 FLOWN TODAY. DOTH WERE PRIMARILY
FURTHER INVESTIGATION OF MACH 1.4 BUFFETT PROBLEM. FLIGHT NUMBER
17 WAS AS FOLLOWS: TOTAL FLIGHT TIME: ONE HOUR FIVE MINUTES.
TAKE-OFF AT Ø61Ø LOCAL WEIGHING 85,000 POUNDS, CG AT APPROX 22.2
PERCENT MAC, PILOT MR PARKS. TAKE-OFF IN AB WITH WATER. CLIMB IN
AB TO 45 THOUSAND FEET. CLIMB SPEED 400 KEAS FROM 10 TO 30 THOUSAND
FEET, WITH SPEED GRADUALLY REDUCING CLIMDING TO 45 THOUSAND. NOSE
WAS LOWERED TO ACCELERATE, DESCENT MADE TO 35 THOUSAND. CLIMB AGAIN
STARTED AT 400 KEAS AT 35 THOUSAND WITH LEVEL OFF AT 45 THOUSAND AT
390 KEAS. BUFFETT ENCOUNTERED AT 1.37 TO 1.40 MACH. AT THIS POINT
LEFT AD BLEW OUT, AND CONSIDERABLE COMPRESSOR STALL WAS ENCOUNTERED.
BOTH THROTTLES RETARDED TO DECELLERATE, PILOT DELIEVES BOTH ENGINES
WERE COMPRESSOR STALLING. MOWING THROTTLES FORWARD AGAIN EROKE
THE STALLS ON BOTH ENGINES. DURING THIS INCIDENT THE PILOT NOTED
VERY GOOD REACTIONS ON PART OF STABILITY ANUMENTATION SYSTEM.

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ONE DEGREE OF YAW WAS NOTED MOMENTARILY, THEN DAMPENED OUT. NO NOTICEABLE PITCH OR ROLL MOVEMENTS NOTED. DESCENT WAS MADE TO TEN THOUSAND WHERE STEP INPUTS TO ROLL PITCH AND YAW AXES WERE MADE. AUGMENTATION SYSTEM REACTIONS WERE EXCELLENT. NORMAL LANDING WAS MADE WITHOUT DRAG CHUTE, 80 KNOTS. PILOT NOTED THAT BEST ERAKING TECHNIQUE APPEARS TO BE A STEADILY INCREASING APPLICATION OF BRAKING COINCIDENT WITH DECREASING AIRSPEED. AIRCRAFT SHUT DOWN WITH NO MALFUNCTIONS TO BE CORRECTED FOR TURNAROUND. FLIGHT NUMBER 18 WAS ESSENTIALLY AS FOLLOWS: TOTAL TIME 57 MINUTES. TAKE-OFF AT 1920 LOCAL WEIGHING 85,000 POUNDS, CG AT APPROXIMATELY 22.2 PERCENT MAC IN AB WITH WATER. PILOT MR. SHALK. CLIMB MADE TO 40 THOUSAND AT 400 KEAS. DAMPERS WERE TURNED OFF FOR SOME SUPERSONIC UNDAMPENED LATERAL AND DIRECTIONAL PULSE CHECKS. SOME YAWING AND ROLLING MOMENT WAS NOTICEABLE, WITH PITCH NO PROBLEM. STABILITY AUGMENTATION WAS TURNED BACK ON AND AIRCRAFT ACCELERATED TO 1.3 MACH. DYPASS DOORS WERE OPENED. CLIMB MADE AT 1.3 MACH TO 45 THOUSAND AND ACCELERATED TO 1.51 MACH WITH BY PASS DOORS REMAINING OPENED. NO BUFFEIT ING OR SHAKING WAS EVIDENT AT ALL IN THIS CONDITION. THIS VERY INTERESTING AS IT INDICATED THAT OUR PROBLEM HAS BEEN RELATED TO PRESENT ENGINE INSTALLATION WITH FIXED SPIKE AND PROBABLY IS NOT AN AIRFRAME EFFECT. DESCENT WAS MADE TO 20 THOUSAND WHERE EMERGENCY GEAR EXTENSION WAS COMPLETED. NO REPET IT ION OF INADVERT ANT DAMPER SHULDOWN WAS NOTED.

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DESCENT WAS MADE FOR LANDING. LANDING WAS NORMAL, NO CHUTE, ROLLOUT

PILOT CONCURS WITH PREVIOUS FLIGHT IN THAT BRAKING TECH
NIQUE IS BEING DEVELOPED THAT SHOULD PRECLUDE BLOWING OF TIRES AS

HAS BEEN OCCURING ON MANY PREVIOUS FLIGHTS. AIRCRAFT LANDED IN

COMMISSION. NEXT FLIGHT TENTATIVELY SCHEDULED FOR AFTERNOON OF 2

JULY.

END OF MESSAGE

SECRET